

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	9419	382/313,314,315,187,188,189,119,186.ccls. 345/173,179,180,181,182,183,158.ccls. 178/18.03.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 12:32
L2	9419	382/313-315,187,188,189,119,186. ccls. 345/173,179,180-183,158.ccls. 178/18.03.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 12:32
L3	14560	(handrawn or handwrit\$5 or scribble or stroke) and ((side or line)) and (curve) and point and straight	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 12:34
L4	9419	1 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 12:34
L5	221	1 and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 12:34
L6	20697	(handrawn or handwrit\$5 or scribble or stroke) and ((side or line)) and (curve) and point and (straight or line or linear) and (close)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 12:39
L7	2	("20040213461").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/04 12:38
L8	22418	(handrawn or handwrit\$5 or scribble or stroke) and ((side or line)) and (curve or spline) and point and (straight or line or linear) and (close)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 12:40
L9	252	2 and 8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 12:39
L10	1200	(handrawn or handwrit\$5 or scribble or stroke) and ((side or line) with (curve or spline) with point) and (straight or line or linear) and (close)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 16:06

## EAST Search History

L11	44	2 and 10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 12:40
L12	482	(handrawn or handwrit\$5 or scribble or stroke) and ((curve or spline) same (point or spot or location) same (straight or line or side or linear) same (close))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 16:12
L13	12	2 and 12	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 16:31
L14	2	((recogni\$4 with shape with scribbl\$3) and (scribble\$3 same spline same point same straight same side same curv\$3 same clos\$)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 16:39
L15	2	((recogni\$4 with shape with scribbl\$3) and (scribble\$3 same spline same point same straight same side same curv\$3 same clos\$) and (scribbl\$3 same clos\$3 same plane same figure same point same side same curve same straight)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/12/04 16:40


[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) | [Purchase History](#) |

Welcome United States Patent and Trademark Office

 [Search Results](#)
[BROWSE](#)[SEARCH](#)[IEEE Xplore GUIDE](#)

Results for "(((handrawn or handwrit\* or scribble or stroke) and ((side or line)) and (curve) and point and (stra...")

Your search matched 11 of 1696753 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by **Relevance** in **Descending** order.[Modify Search](#)

[Search](#)
 [Check to search only within this results set](#)
Display Format:  [Citation](#)  [Citation & Abstract](#)» [Search Options](#)[View Session History](#)[New Search](#)[IEEE/IET](#)[Books](#)[Educational Courses](#)[A](#)[IEEE/IET journals, transactions, letters, magazines, conference proceedings, and](#)[view selected items](#)[Select All](#) [Deselect All](#)» [Key](#)

IEEE JNL IEEE Journal or Magazine

 [view selected items](#)
[Select All](#) [Deselect All](#)1. **Piecewise linear skeletonization using principal curves**

Kegl, B.; Krzyzak, A.:

[Pattern Analysis and Machine Intelligence, IEEE Transactions on](#)  
Volume 24, Issue 1, Jan. 2002 Page(s):59 - 74  
Digital Object Identifier 10.1109/34.982884[AbstractPlus](#) | [References](#) | [Full Text: PDF\(1237 KB\)](#) [IEEE JNL](#)  
[Rights and Permissions](#)

IET JNL IET Journal or Magazine

 [view selected items](#)
1. **Piecewise linear skeletonization using principal curves**

Kegl, B.; Krzyzak, A.:

[Pattern Analysis and Machine Intelligence, IEEE Transactions on](#)  
Volume 24, Issue 1, Jan. 2002 Page(s):59 - 74  
Digital Object Identifier 10.1109/34.982884[AbstractPlus](#) | [References](#) | [Full Text: PDF\(1237 KB\)](#) [IEEE JNL](#)  
[Rights and Permissions](#)

IEEE CNF IEEE Conference Proceeding

 [view selected items](#)
1. **Piecewise linear skeletonization using principal curves**

Kegl, B.; Krzyzak, A.:

[Pattern Analysis and Machine Intelligence, IEEE Transactions on](#)  
Volume 24, Issue 1, Jan. 2002 Page(s):59 - 74  
Digital Object Identifier 10.1109/34.982884[AbstractPlus](#) | [References](#) | [Full Text: PDF\(1237 KB\)](#) [IEEE JNL](#)  
[Rights and Permissions](#)

IET CNF IET Conference Proceeding

 [view selected items](#)
1. **Piecewise linear skeletonization using principal curves**

Kegl, B.; Krzyzak, A.:

[Pattern Analysis and Machine Intelligence, IEEE Transactions on](#)  
Volume 24, Issue 1, Jan. 2002 Page(s):59 - 74  
Digital Object Identifier 10.1109/34.982884[AbstractPlus](#) | [References](#) | [Full Text: PDF\(1237 KB\)](#) [IEEE JNL](#)  
[Rights and Permissions](#)

IEEE STD IEEE Standard

 [view selected items](#)
2. **An on-line handwritten note recognition method using shape metamorph**

Pavlidis, I.; Singh, R.; Papanikopoulos, N.P.:

[Document Analysis and Recognition, 1997., Proceedings of the Fourth Intern](#)  
Volume 2, 18-20 Aug. 1997 Page(s):914 - 918 vol.2  
Digital Object Identifier 10.1109/ICDAR.1997.620644[AbstractPlus](#) | [Full Text: PDF\(456 KB\)](#) [IEEE CNF](#)  
[Rights and Permissions](#)
 [view selected items](#)
3. **The segmentation of cursive handwriting: an approach based on off-line****temporal information**

Plamondon, R.; Privitera, C.M.:

[Image Processing, IEEE Transactions on](#)  
Volume 8, Issue 1, Jan. 1999 Page(s):80 - 91  
Digital Object Identifier 10.1109/83.736691[AbstractPlus](#) | [References](#) | [Full Text: PDF\(268 KB\)](#) [IEEE JNL](#)  
[Rights and Permissions](#)
 [view selected items](#)
4. **Selection of points for on-line signature comparison**

Wirotius, M.; Ramel, J.-Y.; Vincent, N.:

[Frontiers in Handwriting Recognition, 2004. IWFHR-9 2004. Ninth Intern](#)  
26-29 Oct. 2004 Page(s):503 - 508  
Digital Object Identifier 10.1109/IWFHR.2004.92[AbstractPlus](#) | [Full Text: PDF\(240 KB\)](#) [IEEE CNF](#)  
[Rights and Permissions](#)5. **Model selection in online handwriting**

Amara, M.; Courtellement, P.; de Brucq, D.;  
Handwriting Analysis and Recognition (Ref. No. 1998/440), IEE Third Europe:  
14-15 July 1998 Page(s):19/1 - 19/6  
[AbstractPlus](#) | Full Text: [PDF\(308 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

6. **Piecewise linear skeletonization using principal curves**  
Kegl, B.; Krzyzak, A.;  
Pattern Recognition, 2000. Proceedings. 15th International Conference on  
Volume 3, 3-7 Sept. 2000 Page(s):131 - 134 vol.3  
Digital Object Identifier 10.1109/ICPR.2000.903502  
[AbstractPlus](#) | Full Text: [PDF\(448 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

7. **Off-line handwritten signature verification with inflections feature**  
Xiufen Ye; Weiping Hou; Weixing Feng;  
Mechatronics and Automation, 2005 IEEE International Conference  
Volume 2, 29 July-1 Aug. 2005 Page(s):787 - 792 Vol. 2  
[AbstractPlus](#) | Full Text: [PDF\(302 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

8. **A novel segmentation method of handwritten Chinese number character**  
Chen Qiang; Sun Yu-jun; Xia De-shen;  
Control, Automation, Robotics and Vision Conference, 2004. ICARCV 2004 8  
Volume 2, 6-9 Dec. 2004 Page(s):1123 - 1128 Vol. 2  
Digital Object Identifier 10.1109/ICARCV.2004.1469002  
[AbstractPlus](#) | Full Text: [PDF\(231 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

9. **Distance and matching for authentication by on-line signature**  
Wirotius, M.; Ramel, J.Y.; Vincent, N.;  
Automatic Identification Advanced Technologies, 2005. Fourth IEEE Workshop  
17-18 Oct. 2005 Page(s):230 - 235  
Digital Object Identifier 10.1109/AUTOID.2005.19  
[AbstractPlus](#) | Full Text: [PDF\(232 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

10. **Pen-based recognition system of Arabic character utilizing structural analysis**  
Bouslama, F.; Amin, A.;  
Knowledge-Based Intelligent Electronic Systems, 1998. Proceedings KES '98  
Conference on  
Volume 3, 21-23 April 1998 Page(s):76 - 85 vol.3  
Digital Object Identifier 10.1109/KES.1998.725956  
[AbstractPlus](#) | Full Text: [PDF\(584 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

11. **Pattern Recognition Based on Relative Position of Local Features Using**  
Horio, K.; Aikawa, A.; Yamakawa, T.;  
Innovative Computing, Information and Control, 2006. ICICIC '06. First International Conference on  
Volume 2, 30-01 Aug. 2006 Page(s):293 - 296  
Digital Object Identifier 10.1109/ICICIC.2006.329  
[AbstractPlus](#) | Full Text: [PDF\(184 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

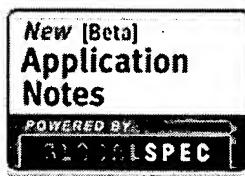

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) | [Purchase History](#) |

Welcome United States Patent and Trademark Office

 [Search Results](#)
[BROWSE](#)[SEARCH](#)[IEEE Xplore GUIDE](#)

Results for "(((handrawn or handwrit\* or scribble or stroke) and ((curve or spline) &lt;paragraph&gt; (point or s..."))

Your search matched 16 of 1696753 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by **Relevance** in **Descending** order.[Modify Search](#)
 (((handrawn or handwrit\* or scribble or stroke) and ((curve or spline) <paragraph> (point or s..."))
 Check to search only within this results set
Display Format:  Citation  Citation & Abstract» [Search Options](#)[View Session History](#)[New Search](#)[IEEE/IET](#)[Books](#)[Educational Courses](#)» [Key](#)

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

 [Select All](#) [Deselect All](#)
 IEEE/IET journals, transactions, letters, magazines, conference proceedings, and

 [view selected items](#) [Select All](#) [Deselect All](#)

1. **The segmentation of cursive handwriting: an approach based on off-line temporal information**

Plamondon, R.; Privitera, C.M.;  
[Image Processing, IEEE Transactions on](#)  
 Volume 8, Issue 1, Jan. 1999 Page(s):80 - 91  
 Digital Object Identifier 10.1109/83.736691

[AbstractPlus](#) | [References](#) | [Full Text: PDF\(268 KB\)](#) [IEEE JNL Rights and Permissions](#)

2. **Piecewise linear skeletonization using principal curves**

Kegl, B.; Krzyzak, A.;  
[Pattern Analysis and Machine Intelligence, IEEE Transactions on](#)  
 Volume 24, Issue 1, Jan. 2002 Page(s):59 - 74  
 Digital Object Identifier 10.1109/34.982884

[AbstractPlus](#) | [References](#) | [Full Text: PDF\(1237 KB\)](#) [IEEE JNL Rights and Permissions](#)

3. **Off-line handwritten signature verification with inflections feature**

Xiufen Ye; Weiping Hou; Weixing Feng;  
[Mechatronics and Automation, 2005 IEEE International Conference](#)  
 Volume 2, 29 July-1 Aug. 2005 Page(s):787 - 792 Vol. 2

[AbstractPlus](#) | [Full Text: PDF\(302 KB\)](#) [IEEE CNF Rights and Permissions](#)

4. **Distance and matching for authentication by on-line signature**

Wirotius, M.; Ramel, J.Y.; Vincent, N.;  
[Automatic Identification Advanced Technologies, 2005. Fourth IEEE Workshc](#)  
 17-18 Oct. 2005 Page(s):230 - 235  
 Digital Object Identifier 10.1109/AUTOID.2005.19

[AbstractPlus](#) | [Full Text: PDF\(232 KB\)](#) [IEEE CNF Rights and Permissions](#)

5. **Core points - a framework for structural parameterization**

Sternby, J.; Ericsson, A.;

[Document Analysis and Recognition, 2005. Proceedings. Eighth International](#)

29 Aug.-1 Sept. 2005 Page(s):217 - 221 Vol. 1

Digital Object Identifier 10.1109/ICDAR.2005.81

[AbstractPlus](#) | Full Text: [PDF\(248 KB\)](#) IEEE CNF[Rights and Permissions](#) **6. Selection of points for on-line signature comparison**

Wirotius, M.; Ramel, J.-Y.; Vincent, N.;

[Frontiers in Handwriting Recognition, 2004. IWFHR-9 2004. Ninth Internation](#)

26-29 Oct. 2004 Page(s):503 - 508

Digital Object Identifier 10.1109/IWFHR.2004.92

[AbstractPlus](#) | Full Text: [PDF\(240 KB\)](#) IEEE CNF[Rights and Permissions](#) **7. Word segmentation of handwritten dates in historical documents by combining knowledge with local features**

Feldbach, M.; Tonnies, K.D.;

[Document Analysis and Recognition, 2003. Proceedings. Seventh Internation](#)

3-6 Aug. 2003 Page(s):333 - 337 vol.1

[AbstractPlus](#) | Full Text: [PDF\(273 KB\)](#) IEEE CNF[Rights and Permissions](#) **8. Pen-based recognition system of Arabic character utilizing structural analysis**

Bouslama, F.; Amin, A.;

[Knowledge-Based Intelligent Electronic Systems, 1998. Proceedings KES '98 Conference on](#)

Volume 3, 21-23 April 1998 Page(s):76 - 85 vol.3

Digital Object Identifier 10.1109/KES.1998.725956

[AbstractPlus](#) | Full Text: [PDF\(584 KB\)](#) IEEE CNF[Rights and Permissions](#) **9. Model selection in online handwriting**

Amara, M.; Courtellemont, P.; de Brucq, D.;

[Handwriting Analysis and Recognition \(Ref. No. 1998/440\), IEE Third Europe](#)

14-15 July 1998 Page(s):19/1 - 19/6

[AbstractPlus](#) | Full Text: [PDF\(308 KB\)](#) IET CNF **10. Pattern Recognition Based on Relative Position of Local Features Using**

Horio, K.; Aikawa, A.; Yamakawa, T.;

[Innovative Computing, Information and Control, 2006. ICICIC '06. First Intern](#)

Volume 2, 30-01 Aug. 2006 Page(s):293 - 296

Digital Object Identifier 10.1109/ICICIC.2006.329

[AbstractPlus](#) | Full Text: [PDF\(184 KB\)](#) IEEE CNF[Rights and Permissions](#) **11. Piecewise linear skeletonization using principal curves**

Kegl, B.; Krzyzak, A.;

[Pattern Recognition, 2000. Proceedings. 15th International Conference on](#)

Volume 3, 3-7 Sept. 2000 Page(s):131 - 134 vol.3

Digital Object Identifier 10.1109/ICPR.2000.903502

[AbstractPlus](#) | Full Text: [PDF\(448 KB\)](#) IEEE CNF[Rights and Permissions](#) **12. An on-line handwritten note recognition method using shape metamorphosis**

Pavlidis, I.; Singh, R.; Papanikopoulos, N.P.;

[Document Analysis and Recognition, 1997. Proceedings of the Fourth Intern](#)

Volume 2, 18-20 Aug. 1997 Page(s):914 - 918 vol.2

Digital Object Identifier 10.1109/ICDAR.1997.620644

[AbstractPlus](#) | Full Text: [PDF\(456 KB\)](#) IEEE CNF

Rights and Permissions

13. **A novel segmentation method of handwritten Chinese number characters**  
Chen Qiang; Sun Yu-jun; Xia De-shen;  
Control, Automation, Robotics and Vision Conference, 2004. ICARCV 2004 8  
Volume 2, 6-9 Dec. 2004 Page(s):1123 - 1128 Vol. 2  
Digital Object Identifier 10.1109/ICARCV.2004.1469002  
[AbstractPlus](#) | Full Text: [PDF\(231 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

14. **New primitives to reduce the effect of noise for handwritten features extraction**  
Zeki, A.M.; Zakaria, M.S.;  
TENCON 2000. Proceedings  
Volume 2, 24-27 Sept. 2000 Page(s):403 - 408 vol.2  
Digital Object Identifier 10.1109/TENCON.2000.888771  
[AbstractPlus](#) | Full Text: [PDF\(480 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

15. **Image-based Chinese seal carving generation with nonparametric sampling**  
Xiaohong Zhang; Min Tang; Jinxiang Dong;  
Computer Supported Cooperative Work in Design, 2004. Proceedings. The 8th International Conference on  
Volume 1, 26-28 May 2004 Page(s):731 - 737 Vol.1  
[AbstractPlus](#) | Full Text: [PDF\(663 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

16. **DTW Based Verification Scheme of Biometric Signatures**  
Kar, Biswajit; Dutta, P. K.; Basu, T. K.; VielHauer, Claus; Dittmann, Jana;  
Industrial Technology, 2006. ICIT 2006. IEEE International Conference on  
15-17 Dec. 2006 Page(s):381 - 386  
Digital Object Identifier 10.1109/ICIT.2006.372387  
[AbstractPlus](#) | Full Text: [PDF\(2266 KB\)](#) IEEE CNF  
[Rights and Permissions](#)

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) | [Purchase History](#) | [Cart](#) |

Welcome United States Patent and Trademark Office

 [Search Session History](#)[BROWSE](#)[SEARCH](#)[IEEE Xplore GUIDE](#)

Tue, 4 Dec 2007, 5:48:48 PM EST

Edit an existing query or  
compose a new query in the  
Search Query Display.

Select a search number (#)  
to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

**Recent Search Queries**

**#1** (((handrawn or handwrit\* or scribble or stroke) and ((side or line) <sentence> (curve or spline) <sentence> point) and (straight or line or linear) and (close))<in>metadata)

**#2** (((handrawn or handwrit\* or scribble or stroke) and ((side or line) <sentence> (curve or spline) <sentence> point) and (straight or line or linear) and (close))<in>metadata)

**#3** (((handrawn or handwrit\* or scribble or stroke) and ((side or line)) and (curve) and point and (straight or line or linear) and (close))<in>metadata)

**#4** (((handrawn or handwrit\* or scribble or stroke) and ((side or line)) and (curve) and point and (straight or line or linear) ) <in>metadata)

**#5** (((handrawn or handwrit\* or scribble or stroke) and ((curve or spline) <paragraph> (point or spot or location) <paragraph> (straight or line or side or linear)))<in>metadata)

[Help](#) [Contact Us](#) [Privacy & :](#)

© Copyright 2007 IEEE –

Indexed by  
 **Inspec**